

IMV VIBRATION TEST SYSTEMS

J series

Air cooled Vibration Test Systems

J250 / SA6AM J250 / EM6AM



Long duration shock tests require high velocity and large displacement. J-series is a high-frequency system that offers usability and durability furnished with functions that accommodates high velocity and displacement testing.

[Expanded maximum test range]

Max. velocity of Sine force: 2.4m/s, Max. velocity of Shock force 4.6 m/s, Max. displacement: 100 mmp-p

[Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard.

[Low noise] Optimised design of the air intake based on fluid dynamics has reduced the air-intake noise.

[All models can be directly coupled to a climatic chamber.]



① High Velocity and Large Displacement

High velocity of 2.4 m/s and Large displacement of 100 mmp-p (4 inch).



■ PSG guide system

② Improvement of Testing Environment

With the operation of Intelligence Shaker Management (ISM), EM range can reduce power consumption and CO2 emissions automatically.

eco-shaker

② User first principle

Compatible with K2 vibration controller. Intuitive interface leads The operator with user-friendly guidance.





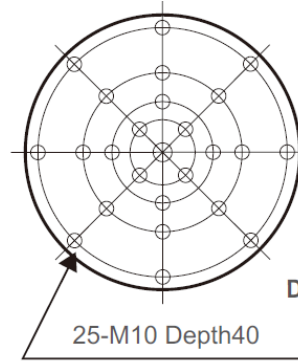
System Specifications			
System Model		J250/SA6AM	J250/EM6AM
Frequency Range (Hz)		0-2200	
Rated Force	Sine (kN)	40	
	Random (kN rms) *1	40	
	Shock (kN)	80	
Maximum Acc.	Sine (m/s ²)	888	
	Random (m/s ² rms)	622	
	Shock (m/s ²)	1777	
Maximum Vel.	SINE (m/s)	2.4	
	Shock (m/s peak)	2.4	2.4(3.5)*3
Maximum Disp.	Sine (mmp-p)	100	
	Maximum Travel (mmp-p)	120	

Vibration Generator (J250)	
Armature Mass (kg)	45
Armature Diameter (φ mm)	440
Armature Resonance (Hz)	1700
Allowance Eccentric Moment (N.m)	1550
Maximum Payload (kg)	600
Mass (kg)	3500

*1) Random force ratings are specified in accordance with ISO5344 conditions.
 *2) Power supply: 3-phase 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages.
 *3) Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force.
 Please contact IMV or your local distributor with specific test requirements.
 * The specification shows the maximum system performance.
 For long-duration tests, de-rating by up to 70 % must be applied.
 Continuous use at maximum levels may cause failure.
 * In the case of Random vibration test, please set the test definition of the peak value of acceleration waveform to be operated less than the maximum acceleration of Shock.
 * Frequency range values vary according to sensor and vibration controller.

Cooling Blower		
Model	VAPE 710/P2R	
Mass (kg)	250	
Environmental Data		
Power Requirement (kVA)	57	
Input Voltage Supply (3φ, V)	380/400/415/440	
Compressed Air Supply (Mpa)	0.6	
Working Ambient	Temperature (°C)	0 - 40
	Humidity (%RH)	0 - 85

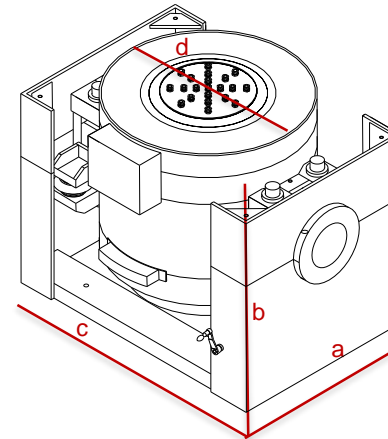
Power Amplifier		
System Model	SA6AM-J50	EM6AM-J50
Maximum Output [kVA]	57	57
Mass [kg]	910	960



(P.C.D. 100, 160, 250, 400)

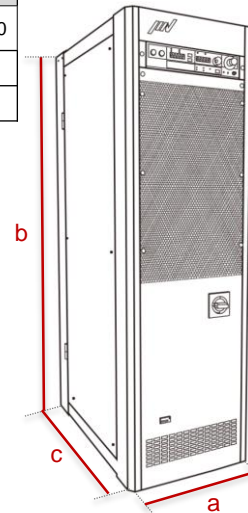
Diameter φ440
unit: mm

J250



Shaker
Model: J250

- a: W 1463 mm
- b: H 1301 mm
- c: D 1100 mm
- d: 860 φmm



Amplifier
Model: SA6AM-J50
a: W 580 mm
b: H 1950 mm
c: D 850 mm

Model: EM6AM-J50
a: W 1160 mm
b: H 1950 mm
c: D 850 mm



Blower
Model: VAPE 710/P2R
a: W 1160 mm
b: H 2405 mm
c: D 787 mm